

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 B32B17/10 B32B31/02 B32B31/04 B32B31/14 C03C27/12  
B60J1/02 B29C35/02 B29C51/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B32B B60J C03C G02B B29C G01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 91/19586 A (MONSANTO CO) 26 December 1991 (1991-12-26) cited in the application page 1, line 8 - page 7, line 33; figures 1,3	1,3,5,7, 8,10-15
A	page 7, line 34 - page 8, line 32; figure 3	2,16
A	page 10, line 35 - page 17, line 28 ----- US 5 264 058 A (HOAGLAND JOHN C ET AL) 23 November 1993 (1993-11-23) cited in the application column 3, line 32 - column 5, line 64; claims 1-16 ----- -/--	1,5-7, 10-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

14 September 2004

Date of mailing of the international search report

24/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Lindner, T

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 261 398 B1 (COSTA PETER) 17 July 2001 (2001-07-17) column 1, line 12 - column 2, line 60 column 4, line 40 - column 5, line 32 claims 1-13; figure 1; examples 1,2	1,3,5-8, 10-15
A	PATENT ABSTRACTS OF JAPAN vol. 010, no. 040 (M-454), 18 February 1986 (1986-02-18) & JP 60 193638 A (ASAHI GLASS KK), 2 October 1985 (1985-10-02) abstract	1,5,7,8, 11-13
A	DE 199 02 471 A (SEKURIT SAINT GOBAIN DEUTSCH) 3 August 2000 (2000-08-03) column 1, line 3 - column 2, line 38 column 3, lines 18-51	1,4,5,9
A	US 5 209 881 A (CHARBONNET DERRICK) 11 May 1993 (1993-05-11) column 3, lines 19-31	16

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9119586	A	26-12-1991	US 5069734 A	03-12-1991
			US 5529654 A	25-06-1996
			AT 101559 T	15-03-1994
			AU 644191 B2	02-12-1993
			AU 8056191 A	07-01-1992
			BR 9106568 A	25-05-1993
			CA 2084662 A1	19-12-1991
			DE 69101221 D1	24-03-1994
			DE 69101221 T2	11-08-1994
			DK 535128 T3	09-05-1994
			EP 0535128 A1	07-04-1993
			ES 2050056 T3	01-05-1994
			JP 5507661 T	04-11-1993
			KR 9512799 B1	21-10-1995
			MX 171196 B	06-10-1993
			WO 9119586 A1	26-12-1991
US 5264058	A	23-11-1993	EP 0655975 A1	07-06-1995
			JP 8500545 T	23-01-1996
			JP 3464671 B2	10-11-2003
			WO 9404357 A1	03-03-1994
US 6261398	B1	17-07-2001	DE 19711459 A1	24-09-1998
			AU 7032898 A	12-10-1998
			BR 9808280 A	16-05-2000
			DE 59806822 D1	06-02-2003
			WO 9841396 A1	24-09-1998
			EP 0975463 A1	02-02-2000
			JP 2001521480 T	06-11-2001
			PL 335569 A1	08-05-2000
JP 60193638	A	02-10-1985	NONE	
DE 19902471	A	03-08-2000	DE 19902471 A1	03-08-2000
			AT 248710 T	15-09-2003
			DE 60004900 D1	09-10-2003
			DE 60004900 T2	22-07-2004
			EP 1029662 A1	23-08-2000
			ES 2204460 T3	01-05-2004
			JP 2000247691 A	12-09-2000
			KR 2000053565 A	25-08-2000
			PL 337959 A1	31-07-2000
			PT 1029662 T	27-02-2004
			US 6410120 B1	25-06-2002
US 5209881	A	11-05-1993	NONE	